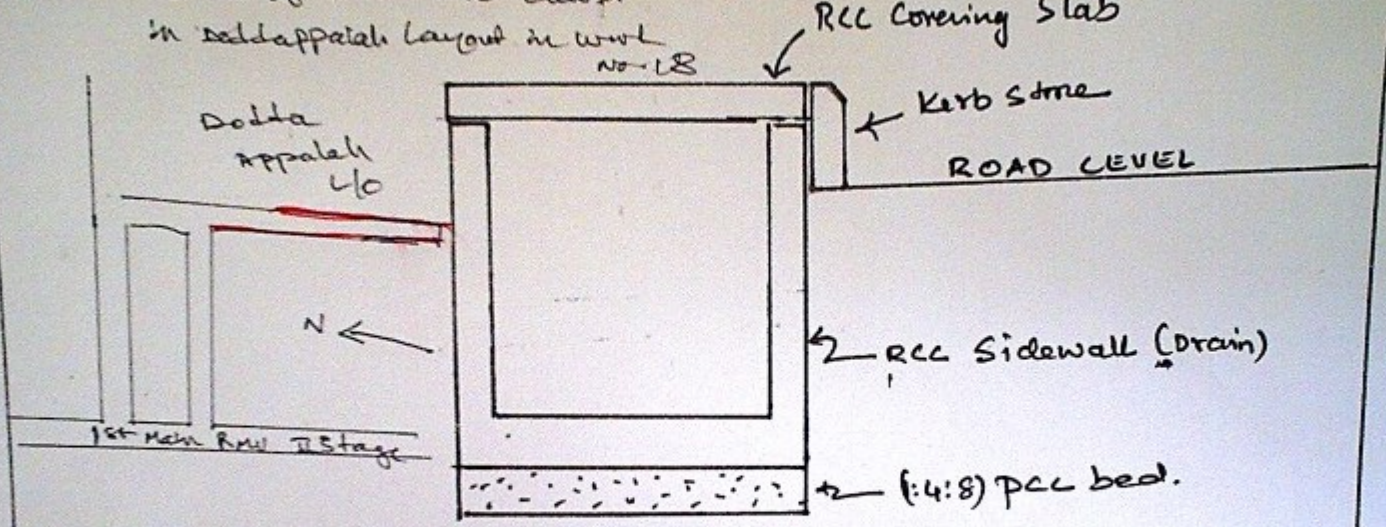
Construction of drain and culvert in Seddappalah Layout in ward No-18



R.C.C. DRAIN.

AE-18

AEE (Hebbal)

BRUHATH BENGALURU MAHANAGARA PALIKE

Name of the Work :- Construction of drain and culverts in Doddappaiah Layout in ward-18

DETAILED ESTIMATE

Ward No.18 **Est Cost: Rs. 10.00 Lakhs**

Sl No	Description of work	Unit	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
1	Earthwork excavation for foundation of buildings, Culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m. In depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications. P No.5 Ino 2.4 PWDSR - 2013-14								
	Drain (c/c)	Cum	1	85.00	1.50	1.20	153.00		
	For culverts		2	7.00	2.00	1.20	33.60		
	Over Burden Earth		1	85.00	2.00	0.30	51.00		
	(BR+A/Wtg) (Rs.140.50+11.24)						237.60	151.74	36053.42
2	Providing and laying in position plain cement concrete of mix M 7.5 with OPC cement @ 180 kgs using 40mm and down size graded granite metal CA @ 0.85 cum and FA @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM machinery, curing complete as per specifications. Specification No.KBS 4.14.2 P No. 12 I no 4.3 PWDSR - 2013-14								
	Concrete Drain	Cum	1	85.00	1.50	0.15	19.13		
	For culverts	Cum	2	7.00	2.00	0.15	4.20		
	(BR+A/Wtg) (Rs.3973.00+317.85)						23.33	4290.85	100084.08
3	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. specification No. KBS 4.6.2 P No 17. I No 4.31 PWDSR - 2013-14								
	For concrete drain	Sqm	4	85.00	1.00		340.00		
	For culverts	Sqm	4	7.00	1.00		28.00	56	
	(BR+A/Wtg) (Rs.251.00+20.00)		8				368.00	271.00	99728.00
							396		107816.00

Sl No	Description of work	Unit	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
4	Providing an laying in position reinforced cement concrete of nominal mix M 20 with OPC @ 320 kgs with 20mm and down size graded granite metal, CA @ 0.878 cum and FA @ 0.459 cum and super pealstisizer @ 3 ltr confirming to is 9103-1999 reaffirmed - 2008 machine mixed, concrete laid in layers not exceeding 15 cms thick, vibraited for all works in foundation plinth and ground floor level for retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, butresses, string or lacing courses, parapets, coping, bed blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No.KBS 4.1, 4.6 P No.13. I No. 4.11 PWDSR - 2013-14								
		Cum							
	for side walls (Drain)		2	85.00	1.00	0.15	25.50		
	Bottom slab (Drain)		1	85.00	1.00	0.20	17.00		
	for side walls (culverts)		4	7.00	1.00	0.20	5.60		
	Bottom slab (culverts)		2	7.00	1.00	0.20	2.80		
	(SR+A/Wtg) (Rs.5222.00+417.75)						50.90	5639.75	287063.28
5	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete. of size 450 x 200 x 400 mm P 24 I NO.5.29.1 PWDSR - 2013-14								
	(SR+A/Wtg) (Rs.293.00+23.45)	Nos					188.00	316.45	59492.60
6	Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with bindig wire and anchoring to the adjining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per spedification No. KBS 4.6.3 Page No.19 I No.4.46 PWDSR - 2013-14								
	60 kgs per Cum of RCC Qnty	Qnty	Rate						
	(SR+A/Wtg) (Rs.6824.00+546.70)				Qntls		30.54	7380.70	225406.58
7	Providing and laying position reinforced cement concrete covering slabs madeout of mix 1:1.50:3 with 20mm and down size granite metal mixed concrete laid in layers not exceeding 15cms vibrated including cost of materials, labor curing providing and laying in position including transportation complete as per specification. (SLAB THICKNESS OF 10CMS)								
	APPROVED DATA RATE	Sqm	1	85.00	1.20		102.00	1427.15	145569.30

Sl No	Description of work	Unit	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
8	Conveying the excavated earth by private vehicle including loading and unloading charges up to 10 kms with all lead and lift. Qty limit to 220 Cum								
		Cum	Qty wide item no (1)				237.60	94.82	22529.00
9	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour compete as per specifications. Specification No.KRBS 800.3 MORT & H Specification No.800. P No. 195. I no 24.1 PWDSR - 2013-14								20860
	(SR+A/Wtg) (Rs.48.00+3.85)	Sqm		85.00	0.30		25.50	51.84	1321.92
10	For Third Party Inspection 2 %							16600.00	19600.00
11	Miscellaneous and unforessen Charges						210.00	~~4820.00~~	3151.83
								Total	1000000.00

↑ ~~44,36,18~~

(Rupees Ten Lakhs only)

CERTIFICATE:

1 The work spot has been inspected me and the work is found to be necessary.
2 The estimate is prepared as per KPWD S.R Bangalore circle for the year 2013-14.
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

Assistant Engineer
Ward 18

Asst. Exe. Engineer
Hebbal Sub-Dn BBMP

Executive Engineer,
Hebbal Division BBMP

ADMINISTRATIVELY SANCTIONED FOR
Rs. Ten lakhs Only
Under P-1771, POW-2013-14
Registered as EE(H), Ward No 93
Subject to Conditions in Enc
Memo No. As/93/13-14 Dt. 30/10/2013

JE/AE

Exe. Engineer (H)

TECHNICALLY SANCTIONED FOR
Rs. Ten lakhs Only
P-1771 POW-2013-14
Under .....
Registered as EE(H) Ward No 98
Subject to conditions in enclosed memo
No TS/98/13-14 Dt: 30/10/2013

JE/AE

EE(H)